

## SEQUENCE LISTING

<110> EVOTEC NeuroSciences GmbH

<120> DIAGNOSTIC AND THERAPEUTIC USE OF A RAB FAMILY  
GTP-BINDING PROTEIN FOR NEURODEGENERATIVE DISEASES

<130> 021863ep ME/BM

<140> 02015429.0

<141> 2002-07-12

<160> 15

<170> PatentIn Ver. 2.1

<210> 1

<211> 194

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Ile Arg Glu Leu Lys Val Cys Leu Leu Gly Asp Thr Gly Val

1

5

10

15

Gly Lys Ser Ser Ile Val Cys Arg Phe Val Gln Asp His Phe Asp His

20

25

30

Asn Ile Ser Pro Thr Ile Gly Ala Ser Phe Met Thr Lys Thr Val Pro

35

40

45

Cys Gly Asn Glu Leu His Lys Phe Leu Ile Trp Asp Thr Ala Gly Gln

50

55

60

Glu Arg Phe His Ser Leu Ala Pro Met Tyr Tyr Arg Gly Ser Ala Ala

65

70

75

80

Ala Val Ile Val Tyr Asp Ile Thr Lys Gln Asp Ser Phe Tyr Thr Leu

85

90

95

Lys Lys Trp Val Lys Glu Leu Lys Glu His Gly Pro Glu Asn Ile Val  
100 105 110

Met Ala Ile Ala Gly Asn Lys Cys Asp Leu Ser Asp Ile Arg Glu Val  
115 120 125

Pro Leu Lys Asp Ala Lys Glu Tyr Ala Glu Ser Ile Gly Ala Ile Val  
130 135 140

Val Glu Thr Ser Ala Lys Asn Ala Ile Asn Ile Glu Glu Leu Phe Gln  
145 150 155 160

Gly Ile Ser Arg Gln Ile Pro Pro Leu Asp Pro His Glu Asn Gly Asn  
165 170 175

Asn Gly Thr Ile Lys Val Glu Lys Pro Thr Met Gln Ala Ser Arg Arg  
180 185 190

Cys Cys

<210> 2

<211> 585

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: complete cDNA  
of RAB 31 gene

<400> 2

atggcgatac gggagctcaa agtgtgcctt ctcggggaca ctgggggttg gaaatcaa  
gc 60

atcgtgtgtc gatttgtcca ggatcacttt gaccacaaca tcagccctac tattgggg  
ca 120

tcttttatga ccaaaactgt gccttgtgga aatgaacttc acaagttcct catctggg

ac 180  
actgctggtc aggaacgggt tcattcattg gctcccatgt actatcgagg ctcagctg  
ca 240  
gctgttatcg tgtatgatat taccaagcag gattcatttt ataccttgaa gaaatggg  
tc 300  
aaggagctga aagaacatgg tccagaaaac attgtaatgg ccatcgctgg aaacaagt  
gc 360  
gacctctcag atattagggg ggttcccctg aaggatgcta aggaatacgc tgaatcca  
ta 420  
ggtgccatcg tggttgagac aagtgcacaaa aatgctatta atatcgaaga gctctttc  
aa 480  
ggaatcagcc gccagatccc acccttggac ccccatgaaa atggaaacaa tggaacaa  
tc 540  
aaagttgaga agccaacccat gcaagccagc cgccggtgct gttga  
585

<210> 3  
<211> 212  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: cDNA fragment  
of RAB31 gene

<400> 3  
accgtggacc acggcccttg ggtcaacagc accggcggct ggcttgcatt gttggctt  
ct 60  
caactttgat tgttccattg tttccacttt catggggggtc caaggggtggg atctggcg  
gc 120  
tgattccttg aaagagctct tcgatattaa tagcattttt tgcacttgtc tcaaccac  
ga 180  
tggcacctat ggattcagcg tattccttag ca  
212

<210> 4  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
RAB31 gene

<400> 4  
actgctgaag gaccctacgc  
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<210> 5

<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
RAB31 gene

<400> 5  
gatgcaaagc cagtgtgctc  
20

<210> 6  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
cyclophilin B gene

<400> 6  
actgaagcac tacgggcctg  
20

<210> 7  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
cyclophilin B gene

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<210> 8  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for  
ribosomal protein S9 gene

<400> 8  
ggtcaaattt accctggcca

20

<210> 9  
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<212> DNA  
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<223> Description of Artificial Sequence: Primer for  
ribosomal protein S9 gene

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19

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beta-actin gene

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<210> 12  
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<223> Description of Artificial Sequence: Primer for the

## GAPDH gene

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cgtcatgggt gtgaaccatg  
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<210> 13  
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GAPDH gene

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21

<210> 14  
<211> 21  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer for the  
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gtcgctgggc agttcgtgat t  
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<210> 15  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer for the  
transferrin receptor gene

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23